

MSDS

CALCIUM CHLORIDE Aqueous Solutions, CALCIUM CHLORIDE TS, CALCIUM CARBONATE STANDARDS, CALCIUM STANDARDS

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 1716, 1720, 1722, 1723, 1728, 1730, 1735, 1740, 1760, 1762, 1770, 1771, 1783, 1799, 1802, C-363, C-365, C020260, C020400, C020500, C020570, C020700, R1720500, R1763000, SC020260, SC020400, SC020480, SC020500, SC020520, SC020570, SC020575, SC020700	
Product Identity: CALCIUM CHLORIDE Aqueous Solutions, CALCIUM CHLORIDE TS, CALCIUM CARBONATE STANDARDS, CALCIUM STANDARDS	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 0V553	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 6/22/98	Revision: 16 Last Revised: 03/14/2007 Date Printed: 06/15/2007 4:52:21 pm

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Calcium Chloride Dihydrate	10035-04-8	0.1 -- 30	Not Available Not Available	Not Available Not Available
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available

Section 3: Hazard Identification

Emergency Overview: Non-flammable, non-corrosive, non-toxic. Does not present any significant health hazards. Wash areas of contact with water. Ingestion may cause serum acidosis.

Target Organs: eyes, skin

Eye Contact: May cause slight irritation.

Inhalation: Not likely to be hazardous by inhalation.

Skin Contact: May cause slight irritation.

Ingestion: Ingestion of large quantity may cause nausea, vomiting, abdominal pain and serum acidosis.

Chronic Effects/Carcinogenicity: None

IARC - No.

NTP - No.

OSHA - No.

Reproductive Information: Not Applicable.

Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Calcium Chloride Dihydrate.

MSDS

CALCIUM CHLORIDE Aqueous Solutions, CALCIUM CHLORIDE TS, CALCIUM CARBONATE STANDARDS, CALCIUM STANDARDS

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Skin Contact: Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

Ingestion: Dilute with water or milk. Call a physician if necessary. Ingestion may cause serum acidosis.

Section 5: Fire Fighting Measures

Flash Point: Not Available.

Method Used: Not Available.

LFL: Not Available.

UFL: Not Available.

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions: Use normal procedures/instructions.

Fire Fighting Equipment: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Absorb with suitable material and dispose of in accordance with local regulations.

Section 7: Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

Safety Storage Code: General

Section 8: Exposure Control/Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, colorless liquid

Odor: Odorless

Solubility in Water: Infinite

Specific Gravity: Approximately 1 - 1.18

pH: 8 - 9

Boiling Point(°C): Approximately 100

Melting Point(°C): Approximately 0

Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: Methyl vinyl ether, Zinc, Boric Acid plus Calcium Oxide, and Bromine Trifluoride.

Hazardous Decomposition Products: Emits toxic fumes of Chlorine when heated to decomposition.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

LD50, Intraperitoneal, Mouse: (Calcium Chloride Dihydrate) 20,500 mg/kg, details of toxic effects not reported other than lethal dose value.

Section 12: Ecological Information

MSDS

CALCIUM CHLORIDE Aqueous Solutions, CALCIUM CHLORIDE TS, CALCIUM CARBONATE STANDARDS, CALCIUM STANDARDS

Ecotoxicological Information: The products of degradation are more toxic.

Chemical Fate Information: Calcium Chloride is only slightly persistent in the aquatic environment, with a half-life of less than 2 days.

Section 13. Disposal Considerations

Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers:

This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status: The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.

Section 311/312 Hazardous Categories: No

Section 313 Toxic Chemicals: Not Applicable.

California: None Reported.

Pennsylvania: None Reported.

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: None Reported.

WHMIS: Not Applicable.

Section 16. Other Information

NFPA Ratings:

Health: 1 Flammability: 0 Reactivity: 0 Special Notice Key: None

HMIS Ratings:

Health: 1 Flammability: 0 Reactivity: 0 Protective Equipment: B (Protective Eyewear, Gloves)

MSDS

CALCIUM CHLORIDE Aqueous Solutions, CALCIUM CHLORIDE TS, CALCIUM CARBONATE STANDARDS, CALCIUM
STANDARDS

- Rev 1, 10-19-98: (Section 16) removed periods from NFPA and HMIS, added ® to HMIS.
- Rev 2, 3-30-99: (Section 1) added catalog numbers 1722, 1723, 1728, 1730, 1735, 1740, 1760, 1762, 1770, 1771, and 1783, renamed as Calcium Chloride, 0.01 - 2 Molar, 0.1 - 30% (w/v) Aqueous Solutions, Calcium Chloride TS; (Section 2) changed concentration to 0.1 - 30; (Section 3) added wash areas of contact with plenty of water, added mutation data citation; (Sections 3 and 4) added ingestion may cause serum acidosis; (Section 9) changed specific gravity to range from 1 - 1.18 and pH range from 8 - 9.
- Rev 3, 9-18-2000: Reformatted from WordPerfect® to Microsoft Word®; (Section 1) Revised emergency telephone number to CHEMTREC® 800-424-9300, corrected title from 0.1-2 to 0.01-2; (Section 7) added storage code; (Section 15) added TSCA statement regarding mixtures.
- Rev 4, 10-09-2001: Reformatted to electronic data format.
- Rev 5, 10-01-2002: (Section 1) added Solutions Plus catalog number C020700.
- Rev 6, 04-25-2003: (Section 1) added Solutions Plus catalog number C020570.
- Rev 7, 12-03-2003: (Section 1) added Solutions Plus catalog number C020400.
- Rev 8, 12-09-2003: (Section 1) added Solutions Plus catalog number C020500.
- Rev 9, 03-23-2004: (Section 1) added Solutions Plus catalog number C020260.
- Rev 10, 03-23-2005: (Section 1) added catalog numbers 1716 and 1799, added Calcium Carbonate Standards and Calcium Standards to title, removed concentrations from title.
- Rev 11, 03-08-2006: (Section 1) added Red Bird catalog numbers C-363 and C-365.
- Rev 12, 03-15-2006: (Section 1) added Red Bird catalog number CX-905.
- Rev 13, 11-14-2006: (Section 1) added catalog number R1763000.
- Rev 14, 12-26-2006: (Section 1) added catalog number R1720500.
- Rev 15, 01-17-2007: (Section 1) added catalog number 1802.
- Rev 16, 03-14-2007: (Section 1) removed Red Bird catalog number CX-905.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.